



MOTOTRBO PORTABLE RADIOS

MOTOTRBO MOBILE RADIOS



GENERAL SPECIFICATIONS

	MOTOTRBO PORTABLE RADIOS												MOTOTRBO MOBILE RADIOS					
	DP1000 SERIES	DP2000e SERIES		DP3000e SERIES		DP4000e SERIES			DP4000 Ex SERIES		SL SERIES			DM1000 SERIES	DM2000 SERIES	DM4000e SERIES		
Protocol	DMR or analogue communications																	
Frequency	Capable of operating in the following frequency ranges																	
Max. Power Output	Radio's full power rating																	
Max. Channel Capacity	Programmable channel capacity																	
Channel Spacing	Programmable channel spacing																	
Display	Displays provide easy access to advanced features																	
Keypad	Keypads provide access to radio controls, texting and telephony																	
Integrated GPS	Embedded GPS receiver for location monitoring																	
Integrated GLONASS	Embedded GLONASS receiver for location monitoring																	
Event Driven Location Updates	Location update based on input from external device (eg door sensor)																	
Distance Driven Location Updates	Location update transmission based on distance travelled																	
Integrated Bluetooth 2.1	Wireless connection for audio accessories or data comms																	
Integrated Bluetooth 4.0	Energy efficient Bluetooth for greater battery life																	
Permanent Bluetooth Discovery	Bluetooth "always on" mode used by some applications																	
Dedicated Emergency Button	Orange programmable button for one-touch emergency calling																	
Programmable Buttons	Allow access to most often used features with one press																	
Digital DMR Signalling	DMR standard digital voice communications																	
PL / DPL Signalling	Analogue Private Line / Digital Private Line compatible																	
Quick Call II Signalling	Analogue Quick Call II compatible																	
MDC Signalling	Analogue MDC compatible																	
5 Tone Signalling	Analogue 5 tone compatible																	
DTMF Hot Keypad	DTMF tone compatible																	
MPT1327 Signalling	Analogue MPT1327 compatible (requires option board)																	
Option Board Capability	Supports option boards for third party applications																	
IMPRES™ Audio Compatible	IMPRES™ audio ensures your voice is heard clearer and louder																	
SIN+C Noise Cancellation	Integrated, advanced noise cancellation for noisy environments																	
Automatic Gain Control	Modifies microphone performance to produce the best voice quality																	
Microphone Distortion Control	Automatic microphone gain adjustment to reduce distortion																	
Tail Enhancement	Additional processing to enhance rolling "r" sound so speech is clearer																	
IMPRES™ Energy Compatible	Use IMPRES™ batteries for longer life and optimal performance																	
IMPRES™ OTA Battery Management	Automatic collection of battery data over the air with radios still in use																	
ATEX Certified	ATEX certified for use in potentially explosive environments																	
IEC Ex Certified	IEC Ex certified for use in potentially explosive environments																	
FM Intrinsically Safe	Factory Mutual (FM) approved for intrinsically safe use																	
TIA4950 Intrinsically Safe	Telecommunications Industry Association (TIA) approved for IS use																	
IP Rating	Rated sealing for dust and water ingress																	
MIL-STD 810	Rated to withstand environmental conditions																	
Dimensions (HxWxD) mm	Physical size																	
Dimensions (Weight)	Physical weight																	

FEATURES AND FUNCTIONS

Intelligent Audio	Automatic volume control based on background noise levels																
User Selectable Audio Profiles	Optimises audio for specific environments and personal preferences																
Emergency Alarm	Radio can initiate an Emergency call process																
Lone Worker	Initiates emergency if user does not respond to periodic alerts																
Remote Monitor	Radio can remotely activate another radio's microphone																
VOX (supported on radio)	Voice activated calling allows handsfree operation																
Audio Feedback Suppressor	Blocks feedback from other radios to eliminate "howling"																
Freeform Text Messaging	User can enter and send free-form text messages																
Pre-programmed Text Messaging	Radio can send pre-programmed text messages																
Extended Texting	Maximum text message length is 280 character																
Vibrate Alert	Vibrate silently alerts the user to an incoming call																
Covert Mode	Disable display, LEDs and audible tones for ultimate discretion																
All Call	One-way call to all radios on a logical channel																
Radio Check	Check if another radio is active on a system without notifying the user																
Digital Telephone Patch	Ability to connect to telephone system (requires additional hardware)																
Transmit Interrupt Encode	Radio can interrupt transmissions from other radios																
Basic Privacy	MOTOTRBO 16-bit encryption for protection against eavesdropping																
Enhanced Privacy	MOTOTRBO 40-bit encryption for more robust protection																
AES256 Encryption	Advanced Encryption Standard (AES) 256-bit encryption																
Default Voice Announcement	Audible confirmation of selected operations of the radio																
Programmable Voice Announcement	Ability to use customised recordings for voice announcements																
Text-to-Speech Voice Announcement	Radio "reads out" Channel, Zone, Functions, Text Messages, Job Tickets																
Radio Management	Centralised radio configuration and code plug management																
Over the Air Programming (OTAP)	Remote, over-air programming using Radio Management																
Integrated Wi-Fi	Enables remote software updates for easier radio management																
Indoor Location Tracking	Use built-in Bluetooth with iBeacons and suitable apps to locate and track radios																
Restricted Access to System	Prevents unauthorised users from communicating through the repeater																
Radio Enable/Disable	Radio can remotely disable and re-enable another radio																
Integrated Mandown	Built-in accelerometer enhances personnel safety by monitoring movement																
Dual Capacity Direct Mode	Use both TDMA time slots to double system capacity without a repeater																
Telemetry Supported	Integrated basic telemetry capability																
Telemetry I/O Pins	Number of built-in input/output pins to support telemetry																
Telemetry Buttons	Number of buttons that can be configured for telemetry																
Fixed Installation	Mobile radios can be used in a fixed installation such as a control room																
Control Station	Mobile acts as the RF link between an Application Server and the radio network																
Remote Mount Control Head	Controls and display can be located separately from radio chassis																
Data ADKs Available	Data Application Developer Kits are available to ADP members																
Certificate Based Wi-Fi Access	WPA/WPA2 Enterprise Wi-Fi Support allowing Wi-Fi enabled MOTOTRBO radios to access certificate based Wi-Fi networks																
System Timer	Supports the ability to set a timer where the radio will stop functioning after the timer expires																

SYSTEM CONFIGURATIONS

Direct Mode Operation	Direct radio-to-radio operation																
Single-Site Conventional	Single site conventional operation (channel selection by users)																
Extended Range Direct Mode	Single site conventional range extension via single channel repeater																
IP Site Connect	Multi-site conventional operation (channel selection by users)																
Capacity Plus	Single- or multi-site MOTOTRBO trunking (channel selection managed by system)																
Capacity Max	Multi-site, DMR Tier III compliant trunking with centralised controller																

¹Integrated Bluetooth, GPS, GLONASS and Wi-Fi are supported on DP4401e, DP4601e, DP4801e, DM4401e & DM4601e only

²Based on NiMH battery

³Based on standard Li-Ion battery

⁴Option board capability on SL4010e only

⁵SL4010e only

⁶Requires keypad microphone

⁷DP4401e, DP4601e, DP4801e, DP4801e Ex are available with MPT Option Board factory fitted

⁸DP1400, DM1400 and DM1600 analogue-only models can be upgraded to MOTOTRBO digital by purchasing a software license

⁹SL1600 Programmable Buttons can scroll through up to 7 features

¹⁰Requires IMPRES™ battery

¹¹Event & distance driven location updates only supported on models with built-in GPS/GLONASS

¹²Only DP2400e, DP4401e, DP4601e, DM4401e and DM4601e available in 300MHz versions

¹³DP1400, DM1400 and DM1600 analogue-only models can be upgraded to MOTOTRBO digital by purchasing a software license

¹⁴VHF models 45W / 300MHz & UHF models 40W

¹⁵20 kHz not supported for all 300MHz models or DM4000e 450-527MHz models

¹⁶Maximum output RF power is 2W for frequencies >470MHz